

# Managing User Access: How to Manage the Herd

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What challenges do you face when managing access for your users?

# The Challenges

- Takes too long
- Repetitive
- Unsure of what access users need or have
- Removing access?

Why is Identity no longer  
enough?

# Problems

- Access based on account status
- Modify access on account change
- Access under departmental control
- Audit access across the enterprise
- Maintain access sanity
- Exception cases

# Internet2 Grouper

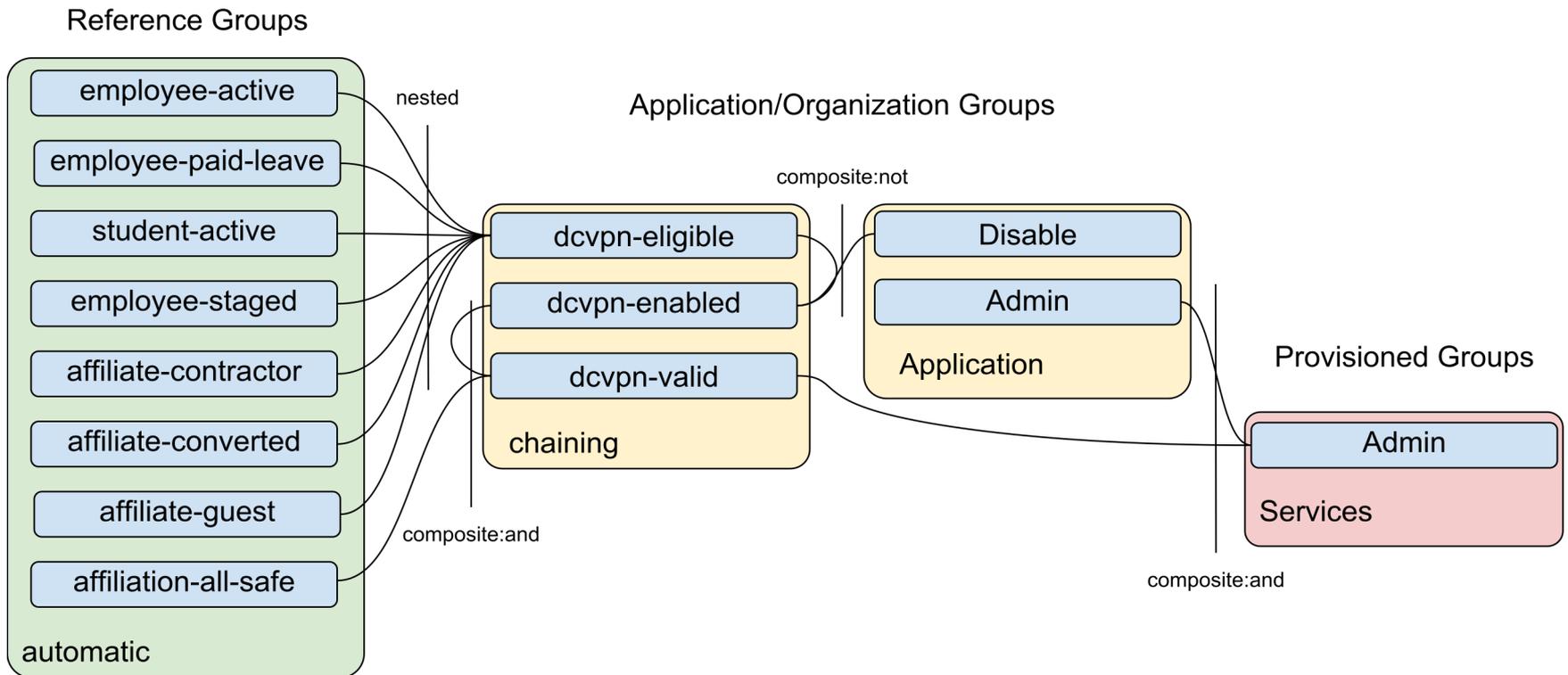
# What is Grouper

- Distributed enterprise access management system
- Trust and Identity in Education and Research (TIER) Initiative
- NIST 800-162 – Attribute Based Access Control (ABAC)

# Key Grouper Features

- Auditing
- Delegation
- Group Math
- Grouper Rules (Triggers)
- Web Service
- Attestation
- Time based Management

# Examples: Data Center VPN Access



# Delegation

- Departments know their access best
- IAM doesn't need to know the details
- Access granting/removal is tracked
- Departments can use reference groups
- Based off the Grouper Deployment Guide

# Groupier at UCLA

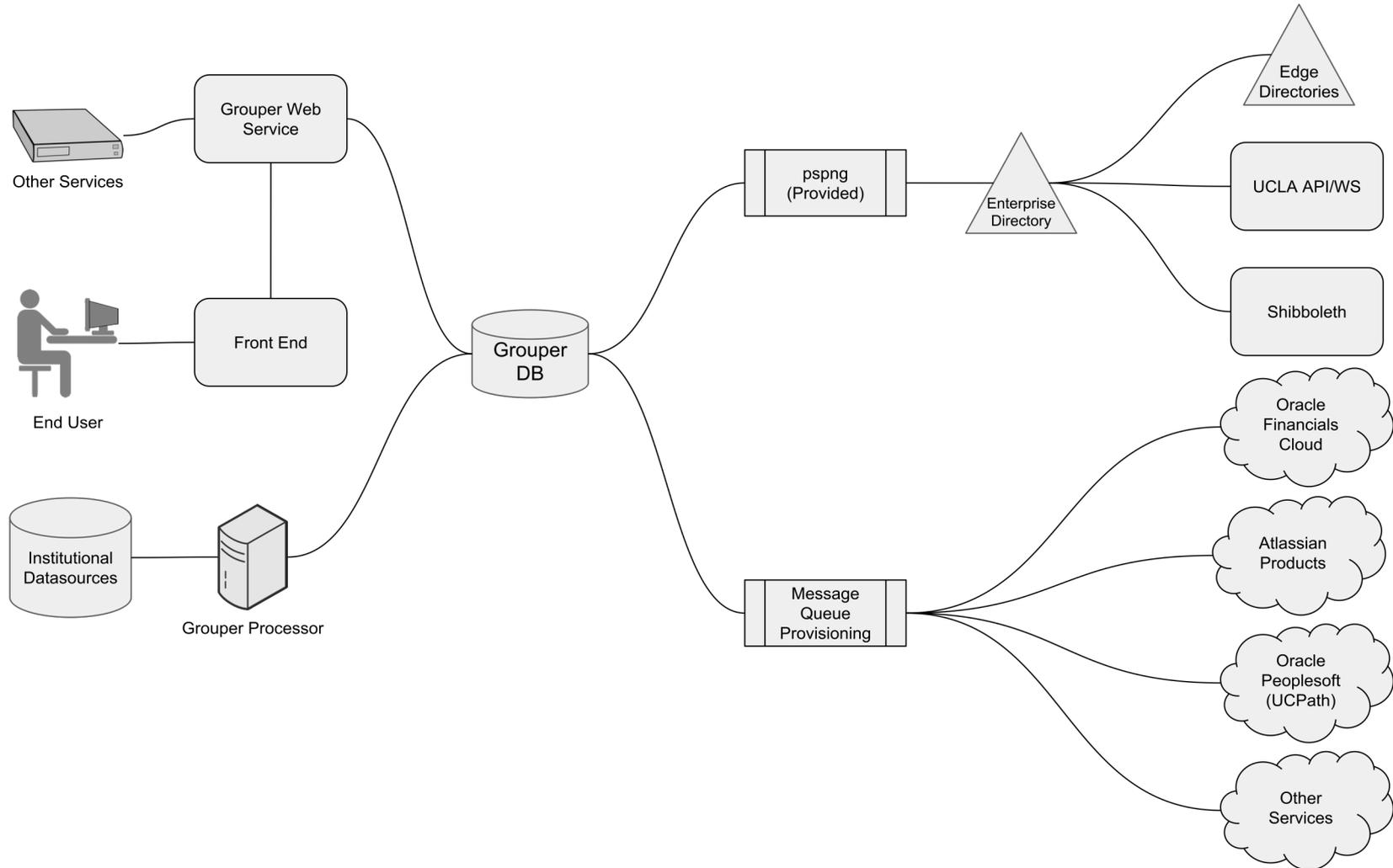
# Distributed Administrative Computing Security System (DACSS) at UCLA

- Legacy system
- Delegated administration
- Fine grained access control
- How do we transition to Grouper?

# UCLA Grouper Use Cases

- Multi-factor Authentication
- MyUCLA (Student Portal)
- BruinCard (Door Access Management)
- AWS Management

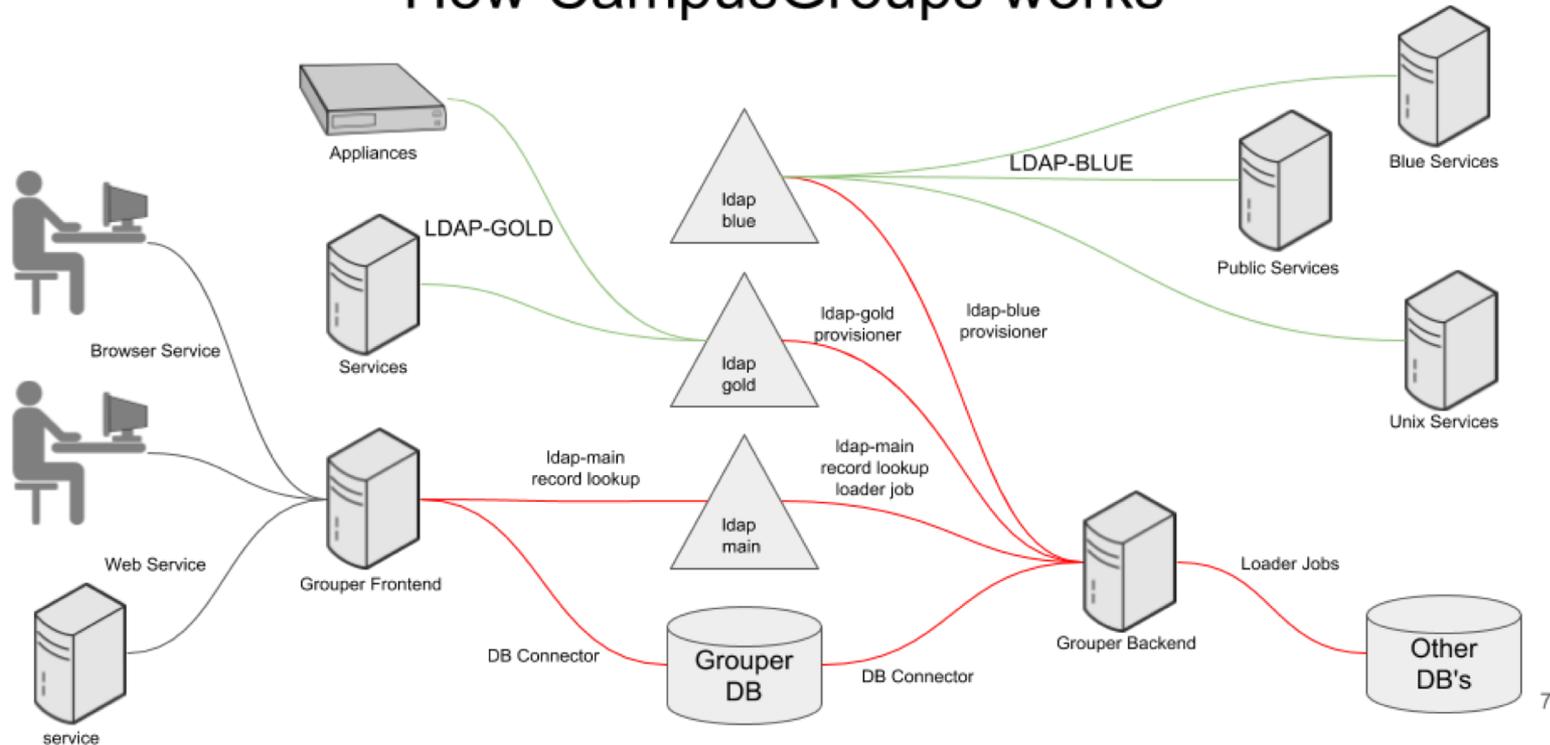
# UCLA Proposed Grouper Architecture



# Groupier at UCSC

# UCSC Grouper Architecture

## How CampusGroups works



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# UCSC Grouper Use Cases

- VPN Access
- CruzID Manager (Access Control)
- Public Groups
- Campus Group Access

# Best Practices for Deployment

- Note the lack of structural differences
- Use TIER as a starting point
- Talk to your developers and functional teams to understand their application
- Talk to Security about sensitivity of groups

# Resources

- Grouper:  
<https://www.internet2.edu/products-services/trust-identity/grouper/>
- IAMUCLA: <https://www.it.ucla.edu/iamucla>
- TIER Grouper Deployment:  
<https://spaces.at.internet2.edu/x/mgAZBg>
- Contacts: [jcrawford@it.ucla.edu](mailto:jcrawford@it.ucla.edu),  
[wleung@it.ucla.edu](mailto:wleung@it.ucla.edu)